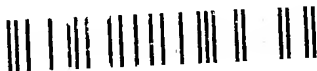


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To the Honorable Commissioner
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1. Name of conveying party(ies):

Hiroki Nakamaru
Tomoshige Ono
Yoshiei KatoAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

Kawasaki Steel Corporation, a corporation of Japan
1-28, Kitahonmachidori 1-chome
Chuo-ku, Kobe-shi
Hyogo 651-0075 JapanAdditional name(s) and address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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Execution Date: November 1, 2001

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A. Patent Application No.(s)

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*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy
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T. Daniel Christenbury

Name of Person Signing

Signature

Date

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1315-01

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Harold Nakamura
Tomoshige Ono
Yoshitaki Kato

2. Name and address of receiving party(ies):

Kawasaki Steel Corporation, a corporation of Japan
1-28, Kitahonmachideri 1-chome
Chuo-ku, Kobe-shi
Hyogo 651-8675 Japan

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☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: November 1, 2001

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A. Patent Application No.(s):

B. Patent No.(s):

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IP Department
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I, the undersigned, do hereby declare and believe that the foregoing statements are true and correct and are attached as part of this document.

T. Daniel Christenbury

Name of Person Signing

Signature

T. Daniel Christenbury

7 Nov 2001

Date

1. The number of pages including cover sheet, attachments and comments: 2

ASSIGNMENT

WHEREAS, I or We, Hiroki Nakamaru, Tomoshige Ono and Yoshiei Kato, all citizens of Japan (hereinafter referred to as the "undersigned"), having made an invention entitled

for which on the date set forth below, unless otherwise indicated here, the undersigned executed an application for United States Letters Patent.

WHEREAS, Kawasaki Steel Corporation, a corporation of Japan with its principal office being located at 1-28, Kitahonmachidori 1-chome, Chuo-ku, Kobe-shi, Hyogo 651-0075 JAPAN (hereinafter referred to as the "assignee"), is desirous of acquiring the entire right, title and interest in said invention, said application and all letters patent issuing for said invention,

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and of other good and valuable consideration, receipt of which is hereby acknowledged, the undersigned, intending to be legally bound, does hereby sell, assign and transfer to the assignee the entire right, title and interest, for the United States of America, its territories and possessions, and for all foreign countries, in said invention, including said patent application, all divisions and continuations thereof, all rights to claim priority based thereon, all rights to file foreign applications on said invention, and all letters patent and reissues thereof, issuing for said invention in the United States of America and in any and all foreign countries.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the undersigned has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the assignee, and to execute all instruments proper to carry out the intent of this instrument. If the undersigned includes more than one individual, these obligations shall apply to all of the undersigned both individually and collectively.

The rights and property herein conveyed by the undersigned are free and clear of any encumbrance.

EXECUTED under seal on November , 2001, at Chiba, Japan

Witness

Hiroki Nakamaru

Tomoshige Ono

Yoshiei Kato